

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE

DESCRIPTIVE REPORT

Type of Survey

Field No.

Registry No.

LOCALITY

State

General Locality

Sublocality

CHIEF OF PARTY

LIBRARY & ARCHIVES

DATE

NOAA FORM 77-28
(11-72)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

REGISTRY No

HYDROGRAPHIC TITLE SHEET

INSTRUCTIONS - The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

FIELD No.

State _____

General Locality _____

Sub-Locality _____

Scale _____ **Date of Survey** _____

Instructions dated _____ **Project No.** _____

Vessel _____

Chief of party _____

Surveyed by _____

Soundings by echo sounder, hand lead, pole _____

Graphic record scaled by _____

Graphic record checked by _____ **Automated Plot** _____

Verification by _____

Soundings in fathoms feet at MLW MLLW _____

REMARKS: _____

DATA ACQUISITION AND PROCESSING REPORT

to accompany
HYDROGRAPHIC PROJECT S-Y916-NRT4-05
Registry Number F00511

Scale of Survey 1:5,000 & 1:10,000
Year of Survey: 2005
Navigation Response Team 4
NOAA Launch S3001
Lucy Massimillo, Team Leader

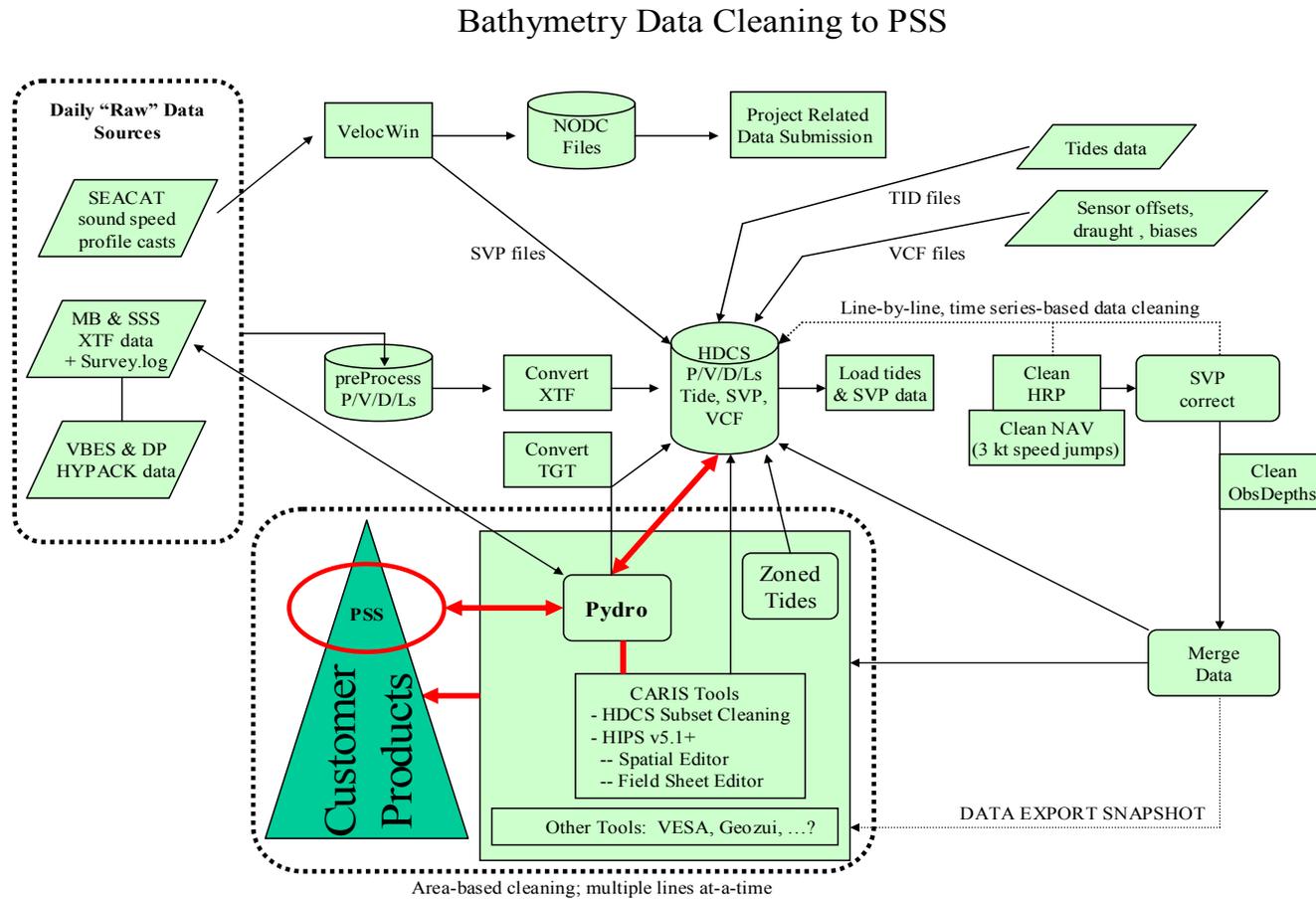
SOFTWARE VERSIONS

Software	Version
Acquisition	
HYPACK MAX	4.3
Sonar Pro	9.6
Trimble TerraSync	2.3
Processing	
KapConv	3.9.1
PYDRO	5.9.4
MapInfo	8.0
Pathfinder Office	2.9
Vertical Mapper	N/A
CARIS HIPS and SIPS	5.4 HF 28
Utilities	
Tides and Currents for Windows	N/A
Irfanview	3.9.1
Fugawi	3.1.0.310
Horizontal Control	
TSIP Talker	2.0
Sound Velocity	
Velocwin	8.77
Digibar Pro Firmware	N/A
Hyperterminal	5.1

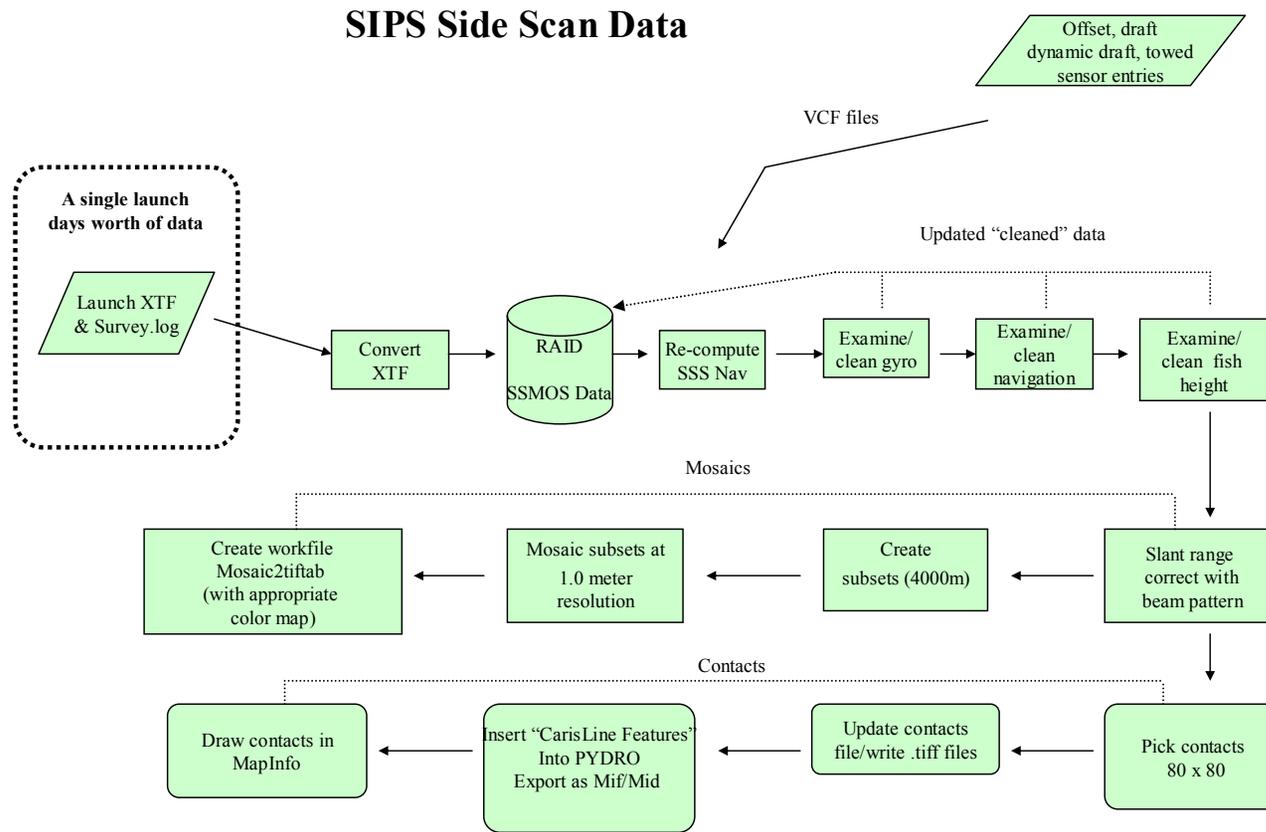
HARDWARE SERIAL NUMBERS

Equipment	Serial Numbers
Installed on Vessel	
ODOM CVX2 Echosounder	23005
Klein 3110 TPU	314
Klein 3210 Towfish	498
Trimble Data Receiver DSM212L	220246329
Trimble Antenna	N/A
Portable	
Diver Least Depth gauges	N/A
Odom Digibar Pro DB1200 Sound Velocity Profiler	98150
Trimble Data Receiver Backpack Unit	0224010134
Trimble Antenna for Backpack Unit	0220361549
Trimble Handheld Unit TSCe	00030965

BATHYMETRY CLEANING FLOW CHART



PYDRO DATA INTEGRATION FLOW CHART

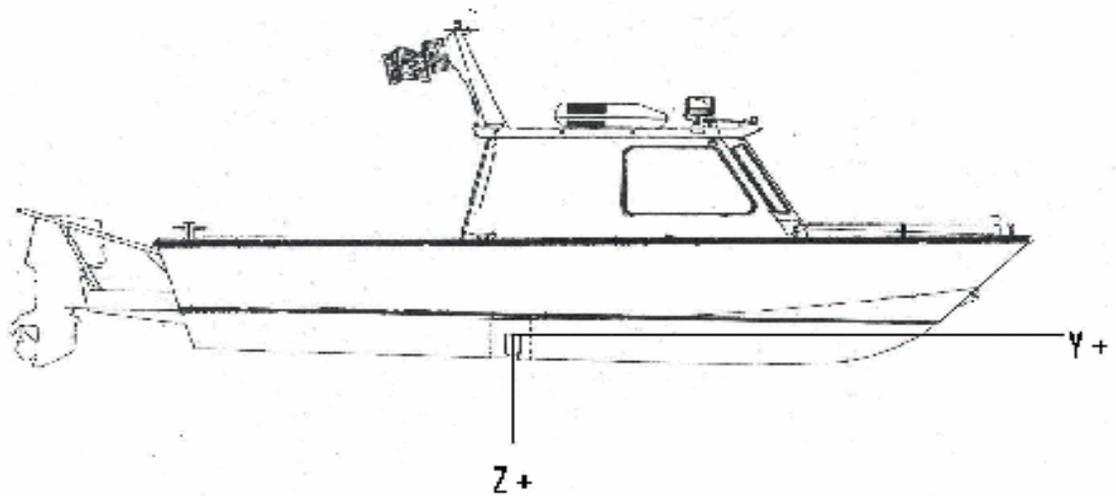
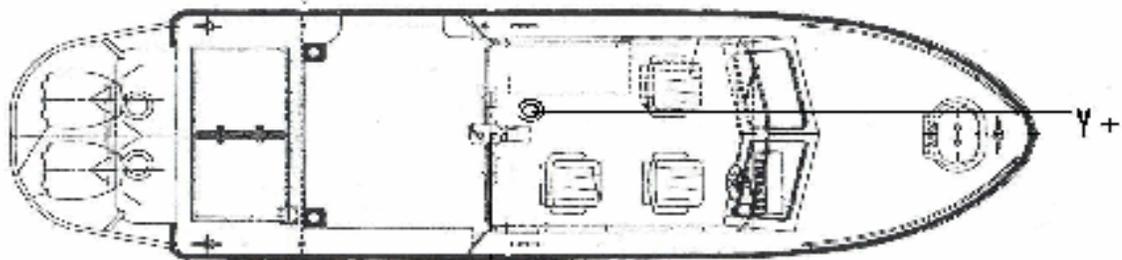


LAUNCH 3001 VESSEL OFFSET MEASUREMENTS

Description: Aluminum SeaArk survey launch

LOA: 32.25 ft (9.8298 m)
LOW: 27 ft (8.2296 m)
Beam: 8.5 ft (2.5908 m)
Draft: 1.640 ft (0.5 m)

Weight: 8,500 lbs
Propulsion: 2@130hp = 260hp
Power: 6.5kw min
Fuel: 100 gal +/-



		Value (Meters)	Date Measured
Antennae offset from VBES transducer	<i>(x-dir)</i>	0.243	Oct-04
Antennae layback from VBES transducer	<i>(y-dir)</i>	-0.843	Oct-04
Antennae height from VBES transducer	<i>(z-dir)</i>	-3.642	Oct-04
J-Arm block offset from VBES transducer	<i>(x-dir)</i>	2.274	Oct-04
J-Arm block layback from VBES transducer	<i>(y-dir)</i>	-2.977	Oct-04
J-Arm block height from waterline	<i>(z-dir)</i>	-2.731	Oct-04

CARIS VESSEL CONFIGURATION FILE PARAMETERS: LAUNCH 3001

Depth Sensor

	Time Error (s)	Delta X (m)	Delta Y (m)	Delta Z (m)	Roll (deg)	Pitch (deg)	Azimuth (deg)	Draft (m)
Transducer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50

Ancillary Sensor Offsets

	Time Error (s)	Delta X (m)	Delta Y (m)	Delta Z (m)	Error
Navigation	0.00	0.243	-0.843	-3.642	
Gyro	0.00	0.00	0.00	0.00	
Heave	0.00	0.00	0.00	0.00	
Pitch	0.00	0.00	0.00	0.00	
Roll	0.00	0.00	0.00	0.00	

Towed SSS Entries

Time Error (s)	0.00
Delta X (m)	2.274
Delta Y (m)	-2.977
Delta Z (m)	-2.731
Layback Error (m)	0.00

Dynamic Draft

Speed (knots)	0.00	4.10	6.00	8.40	11.4	15.4	24.5
Draft Correction (m)	0.00	0.01	0.03	0.05	0.00	-0.08	-0.010

SOUND VELOCITY PROFILER CALIBRATION

Date:
Feb 02, 2005

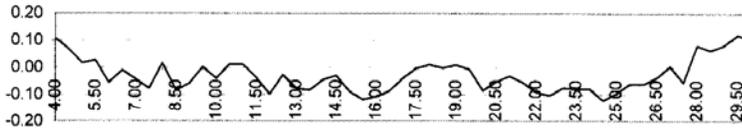
Serial #:
SN:98150-020205

DIGIBAR CALIBRATION REPORT
version 1.0 (c) 2004
ODOM HYDROGRAPHIC SYSTEMS, Inc.



STANDARD DEL GROSSO H²O

TEMP	VELOCITY	MEASURED	RES_VEL	OBS-CAL	TEMP	VELOCITY	MEASURED	RES_VEL	OBS-CAL
FREQUENCY					FREQUENCY				
4.00	1421.62	5551.52	1421.73	0.11	17.50	1474.38	5752.74	1474.38	0.00
4.50	1423.90	5560.08	1423.97	0.07	18.00	1476.01	5759.02	1476.02	0.01
5.00	1426.15	5568.49	1426.17	0.02	18.50	1477.62	5765.12	1477.62	0.00
5.50	1428.38	5577.04	1428.41	0.03	19.00	1479.21	5771.23	1479.22	0.01
6.00	1430.58	5585.13	1430.52	-0.06	19.50	1480.77	5777.15	1480.76	-0.01
6.50	1432.75	5593.61	1432.74	-0.01	20.00	1482.32	5782.76	1482.23	-0.08
7.00	1434.90	5601.89	1434.88	-0.04	20.50	1483.84	5788.71	1483.79	-0.05
7.50	1437.02	5609.87	1436.94	-0.08	21.00	1485.35	5794.54	1485.31	-0.03
8.00	1439.12	5618.04	1439.13	0.02	21.50	1486.83	5800.12	1486.77	-0.05
8.50	1441.19	5625.57	1441.10	-0.08	22.00	1488.29	5805.58	1486.20	-0.09
9.00	1443.23	5633.49	1443.18	-0.06	22.50	1489.74	5811.05	1489.63	-0.10
9.50	1445.25	5641.44	1445.26	0.00	23.00	1491.16	5816.60	1491.09	-0.07
10.00	1447.25	5648.91	1447.21	-0.04	23.50	1492.56	5821.95	1492.49	-0.08
10.50	1449.22	5656.85	1449.24	0.01	24.00	1493.95	5827.25	1493.87	-0.08
11.00	1451.17	5664.09	1451.18	0.01	24.50	1495.32	5832.30	1495.19	-0.12
11.50	1453.09	5671.25	1453.06	-0.04	25.00	1496.68	5837.55	1496.57	-0.09
12.00	1454.99	5678.29	1454.90	-0.10	25.50	1497.99	5842.75	1497.93	-0.06
12.50	1456.87	5685.73	1456.84	-0.03	26.00	1499.30	5847.75	1499.24	-0.06
13.00	1458.72	5692.62	1458.65	-0.08	26.50	1500.59	5852.77	1500.55	-0.04
13.50	1460.55	5699.59	1460.47	-0.08	27.00	1501.86	5857.79	1501.86	0.01
14.00	1462.36	5706.64	1462.32	-0.05	27.50	1503.11	5862.35	1503.06	-0.05
14.50	1464.14	5713.52	1464.12	-0.03	28.00	1504.35	5867.59	1504.43	0.08
15.00	1465.91	5720.03	1465.82	-0.09	28.50	1505.56	5872.17	1505.63	0.06
15.50	1467.65	5726.56	1467.53	-0.12	29.00	1506.76	5876.82	1506.84	0.08
16.00	1469.36	5733.16	1469.25	-0.11	29.50	1507.94	5881.48	1508.06	0.12
16.50	1471.06	5739.72	1470.97	-0.09	30.00	1509.10	5885.87	1509.21	0.11
17.00	1472.73	5746.29	1472.69	-0.04					




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